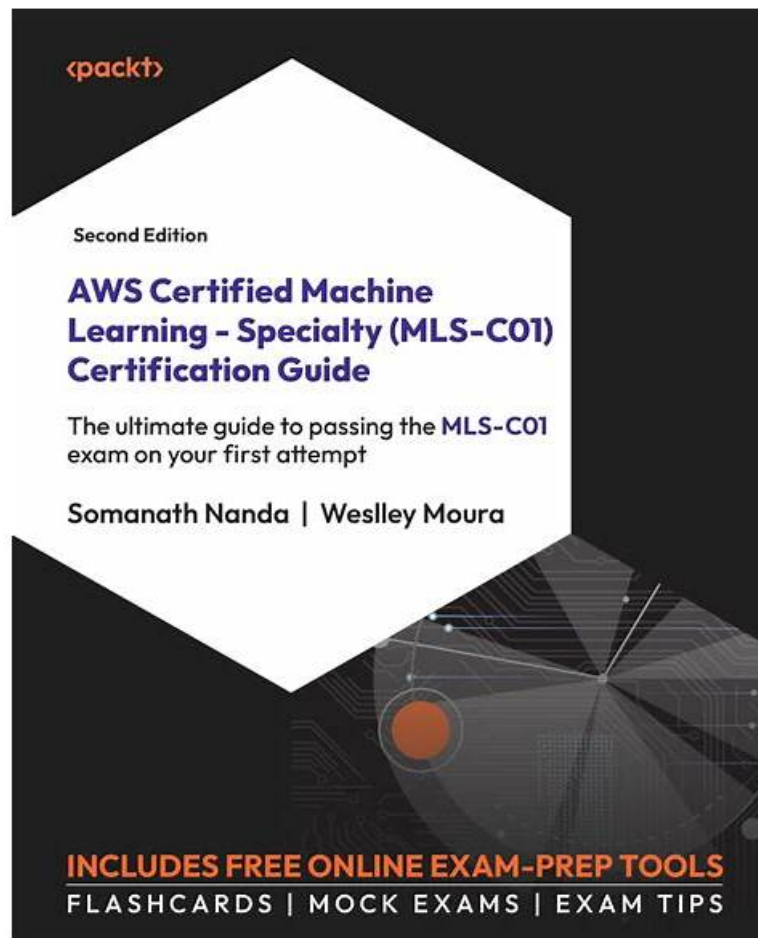


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## Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q319-Q324):

### NEW QUESTION # 319

A machine learning specialist works for a fruit processing company and needs to build a system that categorizes apples into three types. The specialist has collected a dataset that contains 150 images for each type of apple and applied transfer learning on a neural network that was pretrained on ImageNet with this dataset.

The company requires at least 85% accuracy to make use of the model.

After an exhaustive grid search, the optimal hyperparameters produced the following:

68% accuracy on the training set

67% accuracy on the validation set

What can the machine learning specialist do to improve the system's accuracy?

- **A. Add more data to the training set and retrain the model using transfer learning to reduce the bias.**
- B. Use a neural network model with more layers that are pretrained on ImageNet and apply transfer learning to increase the variance.
- C. Train a new model using the current neural network architecture.
- D. Upload the model to an Amazon SageMaker notebook instance and use the Amazon SageMaker HPO feature to optimize the model's hyperparameters.

**Answer: A**

Explanation:

The problem described in the question is a case of underfitting, where the neural network model performs poorly on both the training and validation sets. This means that the model has not learned the features of the data well enough and has high bias. To solve this issue, the machine learning specialist should consider the following change:

\* Add more data to the training set and retrain the model using transfer learning to reduce the bias

1: Adding more data to the training set can help the model learn more patterns and variations in the data and improve its performance. Transfer learning can also help the model leverage the knowledge from the pre-trained network and adapt it to the new data. This can reduce the bias and increase the accuracy of the model.

References:

\* Transfer learning for TensorFlow image classification models in Amazon SageMaker

\* Transfer learning for custom labels using a TensorFlow container and "bring your own algorithm" in Amazon SageMaker

\* Machine Learning Concepts - AWS Training and Certification

### NEW QUESTION # 320

A data engineer at a bank is evaluating a new tabular dataset that includes customer data. The data engineer will use the customer data to create a new model to predict customer behavior. After creating a correlation matrix for the variables, the data engineer notices that many of the 100 features are highly correlated with each other.

Which steps should the data engineer take to address this issue? (Choose two.)

- A. Apply one-hot encoding category-based variables.
- **B. Remove a portion of highly correlated features from the dataset.**
- C. Use a linear-based algorithm to train the model.
- **D. Apply principal component analysis (PCA).**
- E. Apply min-max feature scaling to the dataset.

**Answer: B,D**

Explanation:

B) Apply principal component analysis (PCA): PCA is a technique that reduces the dimensionality of a dataset by transforming the original features into a smaller set of new features that capture most of the variance in the data. PCA can help address the issue of multicollinearity, which occurs when some features are highly correlated with each other and can cause problems for some machine learning algorithms. By applying PCA, the data engineer can reduce the number of features and remove the redundancy in the data.

C) Remove a portion of highly correlated features from the dataset: Another way to deal with multicollinearity is to manually remove some of the features that are highly correlated with each other. This can help simplify the model and avoid overfitting. The data

engineer can use the correlation matrix to identify the features that have a high correlation coefficient (e.g., above 0.8 or below -0.8) and remove one of them from the dataset. References: = Principal Component Analysis: This is a document from AWS that explains what PCA is, how it works, and how to use it with Amazon SageMaker.  
Multicollinearity: This is a document from AWS that describes what multicollinearity is, how to detect it, and how to deal with it.

### NEW QUESTION # 321

A Machine Learning Specialist needs to create a data repository to hold a large amount of time-based training data for a new model. In the source system, new files are added every hour. Throughout a single 24-hour period, the volume of hourly updates will change significantly. The Specialist always wants to train on the last 24 hours of the data.

Which type of data repository is the MOST cost-effective solution?

- A. An Amazon RDS database with hourly table partitions
- **B. An Amazon S3 data lake with hourly object prefixes**
- C. An Amazon EMR cluster with hourly hive partitions on Amazon EBS volumes
- D. An Amazon EBS-backed Amazon EC2 instance with hourly directories

**Answer: B**

Explanation:

An Amazon S3 data lake is a cost-effective solution for storing and analyzing large amounts of time-based training data for a new model. Amazon S3 is a highly scalable, durable, and secure object storage service that can store any amount of data in any format. Amazon S3 also offers low-cost storage classes, such as S3 Standard-IA and S3 One Zone-IA, that can reduce the storage costs for infrequently accessed data. By using hourly object prefixes, the Machine Learning Specialist can organize the data into logical partitions based on the time of ingestion. This can enable efficient data access and management, as well as support incremental updates and deletes. The Specialist can also use Amazon S3 lifecycle policies to automatically transition the data to lower-cost storage classes or delete the data after a certain period of time. This way, the Specialist can always train on the last 24 hours of the data and optimize the storage costs.

What is a data lake? - Amazon Web Services

Amazon S3 Storage Classes - Amazon Simple Storage Service

Managing your storage lifecycle - Amazon Simple Storage Service

Best Practices Design Patterns: Optimizing Amazon S3 Performance

### NEW QUESTION # 322

A large consumer goods manufacturer has the following products on sale:

\* 34 different toothpaste variants

\* 48 different toothbrush variants

\* 43 different mouthwash variants

The entire sales history of all these products is available in Amazon S3. Currently, the company is using custom-built autoregressive integrated moving average (ARIMA) models to forecast demand for these products. The company wants to predict the demand for a new product that will soon be launched. Which solution should a Machine Learning Specialist apply?

- **A. Train an Amazon SageMaker DeepAR algorithm to forecast demand for the new product.**
- B. Train an Amazon SageMaker k-means clustering algorithm to forecast demand for the new product.
- C. Train a custom XGBoost model to forecast demand for the new product.
- D. Train a custom ARIMA model to forecast demand for the new product.

**Answer: A**

Explanation:

\* The company wants to predict the demand for a new product that will soon be launched, based on the sales history of similar products. This is a time series forecasting problem, which requires a machine learning algorithm that can learn from historical data and generate future predictions.

\* One of the most suitable solutions for this problem is to use the Amazon SageMaker DeepAR algorithm, which is a supervised learning algorithm for forecasting scalar time series using recurrent neural networks (RNN). DeepAR can handle multiple related time series, such as the sales of different products, and learn a global model that captures the common patterns and trends across the time series.

DeepAR can also generate probabilistic forecasts that provide confidence intervals and quantify the uncertainty of the predictions.

\* DeepAR can outperform traditional forecasting methods, such as ARIMA, especially when the dataset contains hundreds or

thousands of related time series. DeepAR can also use the trained model to forecast the demand for new products that are similar to the ones it has been trained on, by using the categorical features that encode the product attributes. For example, the company can use the product type, brand, flavor, size, and price as categorical features to group the products and learn the typical behavior for each group.

\* Therefore, the Machine Learning Specialist should apply the Amazon SageMaker DeepAR algorithm to forecast the demand for the new product, by using the sales history of the existing products as the training dataset, and the product attributes as the categorical features.

DeepAR Forecasting Algorithm - Amazon SageMaker

Now available in Amazon SageMaker: DeepAR algorithm for more accurate time series forecasting

### NEW QUESTION # 323

A Machine Learning Specialist is training a model to identify the make and model of vehicles in images. The Specialist wants to use transfer learning and an existing model trained on images of general objects. The Specialist collated a large custom dataset of pictures containing different vehicle makes and models.

What should the Specialist do to initialize the model to re-train it with the custom data?

- A. Initialize the model with random weights in all layers and replace the last fully connected layer
- **B. Initialize the model with pre-trained weights in all layers and replace the last fully connected layer.**
- C. Initialize the model with random weights in all layers including the last fully connected layer
- D. Initialize the model with pre-trained weights in all layers including the last fully connected layer

**Answer: B**

Explanation:

Transfer learning is a technique that allows us to use a model trained for a certain task as a starting point for a machine learning model for a different task. For image classification, a common practice is to use a pre-trained model that was trained on a large and general dataset, such as ImageNet, and then customize it for the specific task. One way to customize the model is to replace the last fully connected layer, which is responsible for the final classification, with a new layer that has the same number of units as the number of classes in the new task. This way, the model can leverage the features learned by the previous layers, which are generic and useful for many image recognition tasks, and learn to map them to the new classes. The new layer can be initialized with random weights, and the rest of the model can be initialized with the pre-trained weights. This method is also known as feature extraction, as it extracts meaningful features from the pre-trained model and uses them for the new task. References:

Transfer learning and fine-tuning

Deep transfer learning for image classification: a survey

### NEW QUESTION # 324

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